

10	30	50
GCACGAGCTGCCCTCCGCAGGCGCACCTGTGTCCCCAGCGCCGCTCCACCCAGCAGGC		
70	90	110
CTGAGCCCCCTCTCTGCTGCCAGACACCCCCCTGCTGCCACTCTCCTGCTGCTCGGGTTCT		
130	150	170
GAGGCACAGCTTGTACACCGAGGCAGATTCTCTTCTCTTCTCTTCTGGGCC		
190	210	230
ACAGCCGCAGCAATGGCGCTGAGTTCCTCTGCTGGAGTTCATCCTGCTAGCTGGGTTCCC		
250	270	290
GAGCTGCCGGTCTGAGCCTGAGGCATGGAGCCTCTGGAGACTGGGGCCTCCCTGG		
<u>M E P P G D W G P P P W</u>		
310	330	350
AGATCCACCCCCAAAACCGACGTCTTGAGGCTGGTGCTGTATCTCACCTTCCTGGGAGCC		
R S T P K T D V L R L V L Y L T F L G A		
370	390	410
CCCTGCTACGCCAGCTCTGCCGCTTGCAAGGAGGACGAGTACCCAGTGGGCTCCGAG		
<u>P C Y A P A L P S C K E D E Y P V G S E</u>		
430	450	470
TGCTGCCCAAGTGCAGTCCAGGTTATCGTGTGAAGGAGGCCTGCGGGGAGCTGACGGC		
C C P K C S P G Y R V K E A C G E L T G		
490	510	530
ACAGTGTGTGAACCCCTGCCCTCCAGGCACCTACATTGCCACCTCAATGCCCTAAGCAAG		
T V C E P C P P G T Y I A H L N G L S K		
550	570	590
TGTCTGCAGTGCCAAATGTGTGACCCAGCCATGGGCTGCGCGAGCCGGAACTGCTCC		
C L Q C Q M C D P A M G L R A S R N C S		
610	630	650
AGGACAGAGAACGCCGTGTGGTTGCAGCCCAGGCCACTTCTGCATCGCTCAGGACGGG		
R T E N A V C G C S P G H F C I V Q D G		
670	690	710
GACCACTGCCCGCGCTGCCGCGCTTACGCCACCTCCAGCCCAGGCCAGAGGGTGAGAAG		
D H C A A C R A Y A T S S P G Q R V Q K		
730	750	770
GGAGGCACCGAGAGTCAGGACACCCGTGTCAAGAACTGCCCGGGGACCTTCTCTCCC		
G G T E S Q D T L C Q N C P P G T F S P		
790	810	830
AATGGGACCCCTGGAGGAATGTCAGCACCAAGCACCAAGTGCAGCTGGCTGGTACGAAGGCC		
N G T L E E C Q H Q T K C S W L V T K A		
850	870	890
GGAGCTGGGACCAAGCAGCTCCACTGGGTATGGTGGTTCTCTCAGGGAGCCTCGTCATC		
<u>G A G T S S S H W V W W F L S G S L V I</u>		

FIG.1A

910	930	950
GTCATTGTTGCTCACAGTTGGCTAATCATATGTGTGAAAAGAAGAAAGCCAAGGGT		
V I V C S T V G L I I C V K R R K P R G		
970	990	1010
GATGTAGTCAGGTGATCGTCTCCGTCCAGCGGAAAAGACAGGAGGCAGAAGGTGAGGCC		
D V V K V I V S V Q R K R Q E A E G E A		
1030	1050	1070
ACAGTCATTGAGGCCCTGCAGGCCCTCCGGACGTACACCGTGGCCGTGGAGGAGACA		
T V I E A L Q A P P D V T T V A V E E T		
1090	1110	1130
ATACCCTATTACGGGGAGGAGGCCAACCACTGACCCACAGACTCTGCACCCGACGC		
I P S F T G R S P N H *		
1150	1170	1190
CAGAGATACCTGGAGCGACGGCTGAATGAAAGAGGCTGTCCACCTGGCGAACCGGA		
1210	1230	1250
GCCCCGGAGGCTTGGGGCTCCACCCCTGGACTGGCTTCCGTCTCCAGTGGAGGGAGAG		
1270	1290	1310
GTGGCGCCCTGCTGGGTAGAGCTGGGACGCCACGTGCCATTCCATGGCCAGTGAG		
1330	1350	1370
GGCCTGGGGCCTCTGTTCTGCTGTGGCCTGAGCTCCCCAGAGTCCTGAGGAGGAGCGCCA		
1390	1410	1430
GTTGCCCTCGCTCACAGACCACACACCCAGCCCTCTGGCCAACCCAGAGGGCCTCA		
1450	1470	1490
GACCCCAGCTGTGTGCGCGTCTGACTCTTGTGGCCTCAGCAGGACAGGCCGGGCACTG		
1510	1530	1550
CCTCACAGCCAAGGCTGGACTGGGTTGGCTGCAGTGTGGTGTAGTGATACCACATCG		
1570	1590	1610
GAAGTGATTTCTAAATTGGATTGAATTGGCTCTGTTCTATTTGTATGAAACAG		
1630	1650	1670
TGTATTTGGGGAGATGCTGTGGGAGGATGTAATATCTTGTTCCTCAAAAAAAAAAA		
1690		
AAAAAAAAAAAAAAAAAAAAAA		

FIG. 1B

1	MEPPGDWGPPPWRSTPKTDVRLVLYLTFLGAPCYAPALPSCKEDEYPVG	50
1	... : ||. . . | . . . . . | . . : | : .	
1	.....MVS LPR LCA LWG CLL TAV HLG QCV TCS DK QYL HD	34
51	SECCPKCSPGYRVKEACGELTGTVCEPCPPGTYIAHLNGLSKCLQCQMCD	100
35	: ||. | | | : . | . | | . | . : | : | : | . | :	
35	GQCCDL CQPGS RL TS HCT ALEKTQCHPCDSGEFSAQWNREIRCHQHRHCE	84
101	PAMGLRASRNCSRTE NAVCGCSPGHFCIVQDGDHCAACRAYATSSPGQRV	150
101	| . | || . : . . : | | . | : | . | | . | . : | | |	
85	PNQGLRVKKEGTAESDTVCTCKEGQHCTS KD...CEACAOHTPCIPGFGV	131
151	QKGGTESQDTLCQNCPPGTFSPNGTL.EECQHQTKC.SWLVTKAGAGTSS	198
151	. . : ||. | | : | | . | . . | | . | . | . . : . | | |	
132	MEMATETTD TVCHPCPCGFFSNQSSLFEK CYPNTSCEDKNLEVLQKGTSQ	181
199	SH.....WVWWFLSGSLVIVIVCSTVGLIICVKR..RKPRGDVVVKIV	239
199	. . : : | . : | : . | ; : : : | : | | : : . .	
182	TNVICGLKSRMR ALLVIPVVMGILITIFGVFLYIKVVKKPKDNEMLPPA	231
240	SVQRKRQEAE G.....EATVIEALQAPPDVT TVAVEETIPSFTGRSPNH	283
240	. . . . | | : . | | . | : . . | | . . | . : | . .
232	ARRQDPQEMEDYPGHNTAAPVQETLHGCQPV TQEDGKESRISVQERQVTD	281

FIG.2

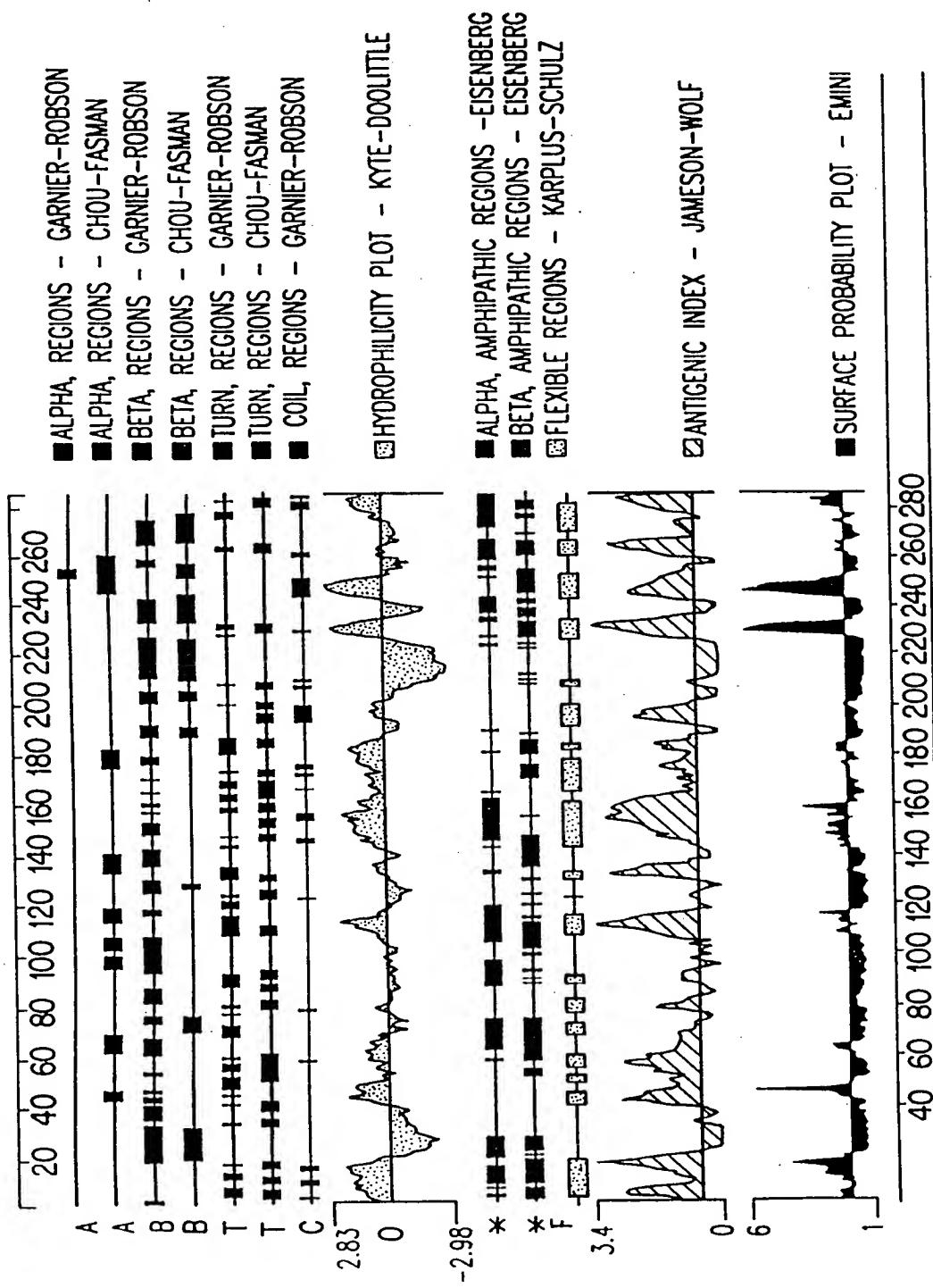


FIG. 3

10	30	50
CCCCCTTCTACAGGAAACCCGGAGTGGACTGGAACGGTGCAGGGGGAGAACTCGCCCCCTC		
70	90	110
CCATCGGGCGCCTCCTTCATACCGGCCCTCCCTCGGCTTGCCTGGACAGCTCCTGCC		
130	150	170
TCAGGCAGCGCCACCTGTGCGCCAGCGCCGCTCCACCCAGCAGGCCCTGAGCCCCCTC		
190	210	230
TGCTGCCAGACACCCCCCTGCTGCCACTACTCCTGCTGCTCGGGTTCTGAGGCACAGCTT		
250	270	290
GTCACACCGAGGCGGATTCTCTTTCTCTTCTCTGGCCACAGCCGCAGCA		
310	330	350
ATGGCGCTGAGTTCTCTGCTGGAGTTCATCCTGCTAGCTGGGTTCCCGAGCTGCCGGTC		
370	390	410
TGAGCCTGAGTCATGGAGCCTCTGGAGACTGGGGGCCTCCTCCCTGGAGATCCACCCCC		
430	450	470
M E P P G D W G P P P W R S T P		
490	510	530
AGAACCGACGTCTTGAGGCTGGTGCTGTATCTCACCTTCTGGAGCCCCCTGCTACGCC		
R T D V L R L V L Y L T F L G A P C Y A		
550	570	590
CCAGCTCTGCCGTCTGCAAGGAGGACGAGTACCCAGTGGGCTCCGAGTGCTGCCCAAG		
P A L P S C K E D E Y P V G S E C C P K		
610	630	650
TGCAGTCCAGGTTATCGTGTGAAGGAGGCCTGCGGGGAGCTGACGGCACAGTGTGTGAA		
C S P G Y R V K E A C G E L T G T V C E		
670	690	710
CCCTGCCCTCCAGGCACCTACATTGCCACCTCAATGGCTAACGCAAGTGTCTGCAGTGC		
P C P P G T Y I A H L N G L S K C L Q C		
730	750	770
CAAATGTGTGACCCAGATATTGGTTCCCCCTGTGACCTCAGGGGAAGAGGTCACCTGGAG		
Q M C D P D I G S P C D L R G R G H L E		
790	810	830
GCTGGTGCCCACCTGAGTCCAGGCAGACAGAAAGGGGAACCAGACCCAGAGGTGGCCTT		
A G A H L S P G R Q K G E P D P E V A F		
850	870	890
GAGTCACTGAGCGCAGAGCCTGTCCATGCGGCCAACGGCTCTGCCCCCTGGAGCCTCAT		
E S L S A E P V H A A N G S V P L E P H		
910	930	950
GCCAGGGCTCAGCATGGCCAGTGCTCCCTGCGGCCAGGCAGGACTGCACCTGCGGGACAGG		
A R L S M A S A P C G Q A G L H L R D R		
GCTGACGGCACACCTGGGGCAGGGCCTGAGCCTACAGGGAGGCACAGGGCAGGTGGC		
A D G T P G G R A *		

970	990	1010
AGCCATGAACAGAACAGAGGAGCTGGAGTGCTTGGGGTTCATGCATGTAGGCTGGGATT		
1030	1050	1070
TGGGGCTCACACCTAACCTGCATGCCAGTTCCATGCCCTCCCTTGTGAAAGCAC		
1090	1110	1130
CTGTCTACTTGGGCTGAGGATGTGGGGCACAGGTGGCAGGTGAGGCTGCCCTCAGGAGG		
1150	1170	1190
GGCCCAGGCCAGCTGTACCCCACCTCCACCAGTACCTGAAGAAGTGGGCTCTCACCC		
1210	1230	1250
TACCTGCCTCTGCCATTGGAATGGCCTGGTTGCACAGATGGAAACCCGTTGAGGGGT		
1270	1290	1310
GGGTGTCTGGTGGGCACGTGGGGCAGGACCTGCCTGAGGGACCCCTGCCCTGGAACGTGA		
1330	1350	1370
CAGTGCAAGCTGGCGTCTGCCATCTGGCAGAAGGCTGGTTCTCCATCACGAAG		
1390	1410	1430
CCCTCCCAGGACCTTCTGCAAGCCCTCGTCCCACACGCAGCTCTGCCGTCCCTGGTGT		
1450	1470	1490
CCCTCCCAGGACCTTCTGCAAGCCCTCGTCCCACACGCAGCTCTGCCGTCCCTGGTGT		
1510	1530	1550
GGGGTTTCAGCCTGGCAGGGCGCCCTGGCAGCAGTCCTGGCCTGTGGATGCTGTCTGGC		
1570	1590	1610
CTGTGGATGGTGTCCCAGGTCCATGCTGGTACCTCTGGCACCTCGTTGGCTGAGCCA		
1630	1650	1670
ATGGGCCTCGCGCGAGCCGAACTGCTCCAGGACAGAGAACGCCGTGTGGCTGCAGC		
1690	1710	1730
CCAGGCCACTTCTGCATCGTCAGGACGGGACCACTGCGCCGCGTGCCTACGCC		
1750	1770	1790
ACCTCCAGCCCCGGCCAGAGGGTGCAGAACGGAGGCACCGAGAGTCAGGACACCCGTGT		
1810	1830	1850
CAGAACTGCCCGGGGACCTTCTCCCAATGGGACCCCTGGAGGAATGTCAGCACAG		
1870	1890	1910
ACCAATTGGCTAATCATATGTGTAAAAGAACAGAACAGGGTGAGCACACGGTGGC		
1930	1950	1970
CCCATCAGGGTTCATGTCCCCAGCCGTACCTCTGGAGCTCTGTCACCCCAAGCCTGGG		
1990	2010	2030
AGGTGGCCCCAGAGCTTTCCAGGATCCGGCTCCTCCAGGGCAGCCACTGCAGGCTG		
2050	2070	2090
GGGCAGGTGTATGTAGTCAGGTGATCGTCTCCGTCCAGCGGTAAAAGACAGGAGGCAGA		
2110	2130	2150
AGGTGAGGCCACAGTCATTGAGCCCTGCAGGCCCTCCGGACGTCACCACGGTGGCCGTG		
2170	2190	2210
GAGGAGACAATACCCTCATTACGGGGAGGAGCCAAACCACTGACCCACAGACTCTGCA		

FIG.4B

2230	2250	2270
CCCCGACGCCAGAGATACTGGAGAGACGGCTGCTGATAGAGGCTGTCCACCTGGCGAAA		
2290	2310	2330
CCACCGGAGCCCGGAGGCTTGGGGCTCCGCCCTGGGCTGGTTCCGTCTCCCTCCAGTGG		
2350	2370	2390
AGGGAGAGGTGGTGCCCTGCTGGTAGAGCTGGGACGCCACGTGCCATTCCATGG		
2410	2430	2450
TTCAGTGAGGGCTGGTGGCCTCTGTTCTGCTGTGGCCTGAGCTCCCCAGAGTCCTGAGG		
2470	2490	2510
AGGAGCCCCAGTTGCCCTCGCTCACAGACACACACACAGCCCTCCTGGCCAACCCAG		
2530	2550	2570
AGGCCCTTCAGACCCCAGCTGTCGCGCTCTGACTCTTGTGGCCTCAGCAGGACAGGC		
2590	2610	2630
CCCGGGCACTGCCTCACAGCCAAGGCTGGAATGGGTTGGCTGCAGTGTGGTGTAGTGG		
2650	2670	2690
ATACCACATCGGAAGTGATTTCTAAAAATTGGATTGAATTGGAAAAAAA		

FIG.4C

FIG.5

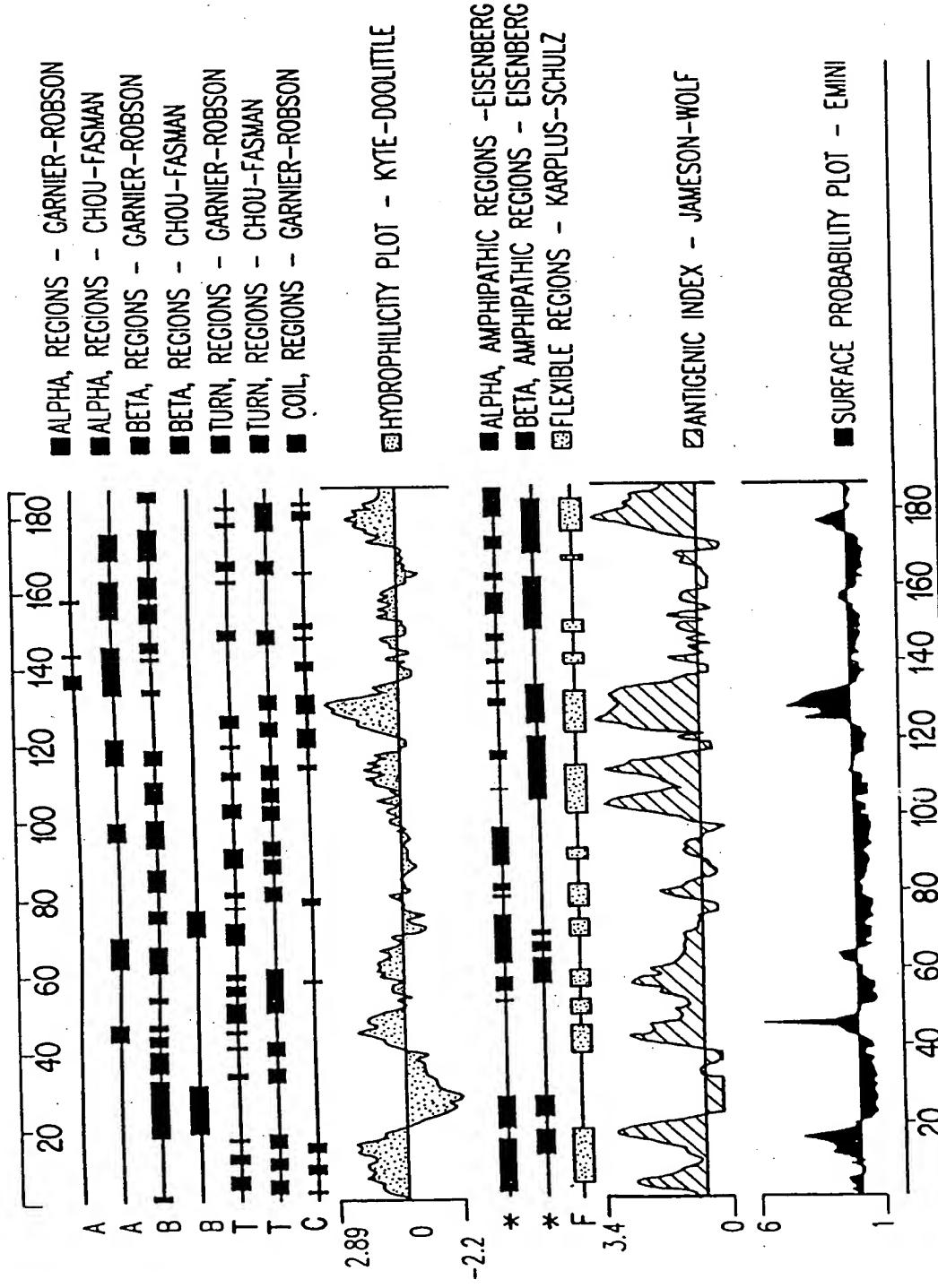


FIG. 6

10	30	50
AAAGCTGGGCTCCACCGGGGACGACCGCTCCTAGAAACTGAGTGGTATCCCCCGGGCCT		
70	90	110
GCAGGAATTCCAACCTGCCTGAAGGGACCTGCCCTGGAACTGACAGTGCAAGCTGGCG		
130	150	170
TCCTGCCCATCTGGGAAGAAGGCTGGTTCTCCCATCACGAAGCCCTCCAGGACCTTC		
190	210	230
CTGCAAGCCCTCGTCCCACACGCAGCTCTGCCGTCCCTGGTGTCCCTCCGGCCTCAGG		
250	270	290
TCCTCCATGCTGGGTACCTCTGGCACCTCGTTGGCTGAGCCAGGGGTTCAGCCTGGCA		
M L G T S G H L V W L S Q G F S L A		
310	330	350
GGCGCCCTGGCAGCAGTCCTGGCCTGTGGATGCTGTCTGGCCTGTGGATGGTGTCCC		
G R P G S S P W P V D A V L A C G W C P		
370	390	410
GGCCTCCACGTACCCCTCTCAGCCCTCCTCTTGGACTCCAGCATGGCCTGCGCGCG		
G L H V P P L S P S S W T P A M G L R A		
430	450	470
AGCCGGAACTGCTCCAGGACAGAGAACGCCGTGTGGCTGCAGCCCAGGCCACTTCTGC		
S R N C S R T E N A V C G C S P G H F C		
490	510	530
ATCGTCCAGGACGGGACCACTGCGCCGCGTGCCCGCCTACGCCACCTCCAGCCCAGGG		
I V Q D G D H C A A C R A Y A T S S P G		
550	570	590
CAGAGGGTGCAGAAGGGAGGCACCGAGAGTCAGGACACCCGTGTCAAGAACTGCCCGG		
Q R V Q K G G T E S Q D T L C Q N C P R		
610	630	650
GGACCTTCTCCCAATGGGACCCCTGGAGGAATGTCAGCACAGACCAAGTAAGTGAACC		
G P S L P M G P W R N V S T R P S K *		
670	690	710
CGGGGGAGGCCAGCTCTGTGCCCTGGGGAGGGGCTCCACGTTGCTTCCCTGGGAGATGA		
730	750	770
CCGTCTTCTCCAGCAGAAAGGTTGAAGGTCCCACCCCTGAGCGGCACCCGGTACATGCC		
790	810	830
TGCGTCCAGGAGAGCTGCAGGGTGAAGCCTGTGTGCCCTAGGATGGGCCCTCCAGAAC		
850	870	890
CAGACAAAGCCTCATCAGATCTGAGCTTCCCTGGAGGGCTCAGGATGGGCCCTCCAGAAC		
910	930	950
AGGCCCAAGAGGGAGGCCTGCCTCCAGATCCCCTGTCCCCTGGGCTGTGGGTGTCCCTGAA		
970	990	1010
TGTCAGGGCCATGGGAGGGCCCTGGGCTTCAGGGGTTGGGAAAGTGAACACTCTGCTC		

FIG. 7A

1030	1050	1070
TTTGTCACCTCGGGAGGACAACCTCAAATGCTGACCCCTGGGCCCTAACTGACCTGA		
1090	1110	1130
GACTTCAGAGCTTCTTGGGAGGAGCTGGGGTCCCCAGCGGAGCCTGGGATGGAGCAGGG		
1150	1170	1190
ATGGCTGCCCGAGGGAGGGGGCGGTGGGGCTTCCATCCTGCTTGCCCTCCTCGTCCTC		
1210	1230	1250
TGGCCCCAGCTCAGTCCTGTCCATCTCCAGCTCTAACCAATTGTGGCCGACACTGGCTC		
1270	1290	1310
TCCCTCTACCTCTGTCCCTGTCTGACACTGGTCTCCGTGCTTGCCGCTCTGGCCAGTCT		
1330	1350	1370
ATGGCTGCCTCCGCTTCTCTCCCCTCTGCCGTCTGTCCCTGTGGCCAGTCT		
1390	1410	1430
CTCCTTGTTCCTCTCCCTCTCCCTCTCCACCTCCCCATAGCCGAGCTTGGAAAA		
1450	1470	1490
GTCAGACAGACCTCTGAGGTCTCATCCTGGAGCTGCCACCAGCCCAGCCTCCCTGGGACC		
1510	1530	1550
TGTCTTCACTGCCTGGGGCCCTGGGAGGCCAGGGAGGCTCCCTGAGGCTGAGTGAACACTG		
1570	1590	1610
GGCGCTGCACCTGCCTCTCCCACGTCCTGGCCCCACTCCCGCAGGTGCAGCTGGCTGGT		
1630	1650	1670
GACGAAGCCGGAGCTGGGACCAGCAGCTCCACTGGGTATGGTGGTTCTCAGGGAG		
1690	1710	1730
CCTCGTCATCGTCATTGTTGCTCCACAGTTGGCCTAATCATATGTGTGAAAAGAAGAAA		
1750	1770	1790
GCCAAGGGGTGATGTAGTCAAGGTGATCGTCTCCGTCCAGGTATTGATCCTCCCTCCCCCT		
1810	1830	1850
CTCCCTCCCCCTCCACCTCCCACCTCCCCCTCCCCGCTGGGCTGGTGGTTCTGGTG		
1870	1890	1910
TACATGGTGGGGCTCCAGTTCTGTGAGGGTCTGAGTCTTCAAGTACAGCCACGGTA		
1930	1950	1970
GCTCAGGAAAGAACCCACCCCTCAAACGTGAAAGCAGTAAATGAACCCGAGAACCTGGA		
1990	2010	2030
GTCCCAGGGGGCCTGAGCAGGCAGGGTCTCCACGATTGTGCTCACAGCGGGAAAAG		
2050	2070	2090
ACAGGAGGCAGAAGGTGAGGCCACAGTCATTGAGGCCCTGCAGGCCCTCCGGACGTAC		
2110	2130	2150
CACGGTGGCCGTGGAGGAGACAATACCCTCATTCACGGGGAGGAGCCAAACCACTGAC		
2170	2190	2210
CCACAGACTCTGCACCCCGACGCCAGAGATACCTGGAGCGACGGCTGCTGAAAGAGGCTG		
2230	2250	2270
TCCACCTGGCGAAACCACCGGAGCCCGGAGGTTGGGGCTCGCCCTGGCTGGTTCC		

FIG. 7B

2290	2310	2330
GTCTCCTCCAGTGGAGGGAGAGGTGGGGCCCTGCTGGGTAGAGCTGGGACGCCACGT		
2350	2370	2390
GCCATTCCATGGGCCAGTGAGGGCTGGGCCTCTGTTCTGCTGTGGCCTGAGCTCCCC		
2410	2430	2450
AGAGTCCTGAGGGAGGAGCGCCAGTTGCCCTCGCTCACAGACCACACACCCAGCCCTCCT		
2470	2490	2510
GGGTCCAGCCCAGAGGGCCCTTCAGACCCCCAGCTGTCTGCGCGTCTGACTCTTGTGGCCT		
2530	2550	2570
CAGCAGGACAGGCCCGGGCACTGCCCTCAAGCCAAGGCTGGACTGGGTTGGCTGCAGTG		
2590	2610	2630
TGGTGTGTTAGTGGATACCACATCGGAAGTGATTTCTAAATTGGATTTGAAAAAAA		

FIG. 7C

1	MLGTSGHLVWLSQGFSL	AGRPGSSPWPVD	29
	
1	.MAPVAVWAALAVGLELWAAAHALPAQVAFTPYAPEPGSTCRLREYYDQT		49
30	AVLACGWC.PGLHV	PPLSPSSW	50
	. . : .	. . :	
50	AQMCCSKCSPGQHAKVFCTKTSDTVCDSCEDSTYTQLWNWVPECLSCGSR		99
51	TPAMGLRASRNCSRTENAVCGCSPGHFCIVQDGDHCAACRAYATSSPGQR		100
 : : . : : . . .		
100	CSSDQV.ETQACTREQNRICTRPGWYCALSKQEGCRLCAPLRKCRPGFG		148
101	VQKGGTESQDTLCQNCPRGPSLPMGPWRNVSTRPSK		136
	. . . : 		
149	VARPGTETSDVVCKPCAPGTFSNTSSTDICRPHQICNVVAIPGNASMDA		198

FIG.8

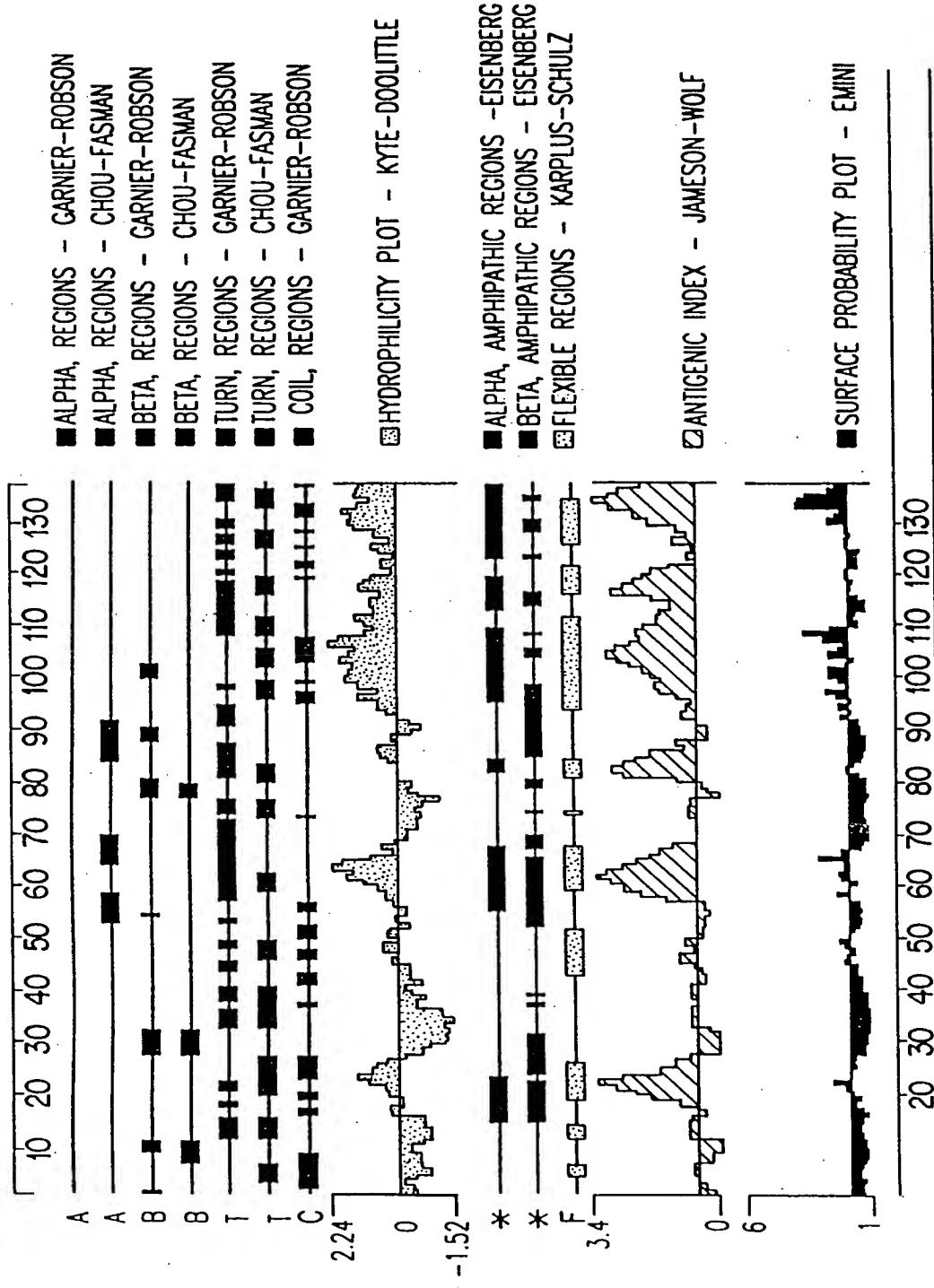


FIG. 9

FIG. 10

FIG. 11

1	MEPPGDWGPPPWRSTPRTDVLRLVLYLTFLGAPCYAP.....ALPSCK	43
1	.....:::| :.:| | |. .| | ..|. .|
1	.....MLGTSGHLVWLSQGFSLAGRPGSSWPVDAVLACGWCP	38
44	EDEYPVGSECCPKCSPGYRVKEACGELTGTVCCEPCPPGTYIAHLNGLSKC	93
39	GLHVPPLSLSPSSWTPAMGLRASRNCSTENAVCGCSPGHFCI..VQDGDHC	86
94	LQCQMCDDPDIGSPCDLRGRGHLEAGAHLSPGRQKGEPDPEVAFESLSAEP	143
87	. |. . . . :||. . . | | . . | . . . . | . . . . . | . |
87	AACRAYAT..SSPGQRVQKGGTESQDTLCQNCPRGPSLPMGPWRNVSTRP	134
144	VHAANGSVPLEPHARLSMASAPCGQAGLHLRDRADGTPGGRA.	185
135	SK.....	136

FIG.12

1	.....GCACGAGCTGCCTCCGCAGGCCACCTGTGTCCCCAGCG	42
101	TTGCCTGGACAGCTCCTGCCTCAGGCA.GGCCACCTGTGTGCCAGCG	149
43	CCGCTCCACCCAGCAGGCCCTGAGCCCTCTGCTGCCAGACACCCCTG	92
150	CCGCTCCACCCAGCAGGCCCTGAGCCCTCTGCTGCCAGACACCCCTG	199
93	CTGCCCACT.CTCCTGCTGCTGGGTTCTGAGGCACAGCTTGTACACCG	141
200	CTGCCCACTACTCCTGCTGCTGGGTTCTGAGGCACAGCTTGTACACCG	249
142	AGGCGGATTCTCTTCTCTTCTCTTCTGGCCCACAGCCGCAGC	191
250	AGGCGGATTCTCTTCTCTTCTCTTCTGGCCCACAGCCGCAGC	299
192	AATGGCGCTGAGTTCTCTGCTGGAGTTCATCCTGCTAGCTGGGTTCCG	241
300	AATGGCGCTGAGTTCTCTGCTGGAGTTCATCCTGCTAGCTGGGTTCCG	349
242	AGCTGCCGGTCTGAGCCTGAGGCATGGAGCTCCTGGAGACTGGGGGCCT	291
350	AGCTGCCGGTCTGAGCCTGAGTCATGGAGCCTGGAGACTGGGGGCCT	399
292	CCTCCCTGGAGATCCACCCCCAAACCGACGTCTTGAGGCTGGTGCTGTA	341
400	CCTCCCTGGAGATCCACCCCCAGAACCGACGTCTTGAGGCTGGTGCTGTA	449
342	TCTCACCTTCTGGAGCCCCCTGCTACGCCAGCTGCCGTCTGCA	391
450	TCTCACCTTCTGGAGCCCCCTGCTACGCCAGCTGCCGTCTGCA	499
392	AGGAGGACGAGTACCCAGTGGGCTCCGAGTGCTGCCCAAGTGCAGTCCA	441
500	AGGAGGACGAGTACCCAGTGGGCTCCGAGTGCTGCCCAAGTGCAGTCCA	549
442	GGTTATCGTGTGAAGGAGGCCTGCGGGAGCTGACGGCACAGTGTGA	491
550	GGTTATCGTGTGAAGGAGGCCTGCGGGAGCTGACGGCACAGTGTGA	599

FIG. 13A

FIG. 13B

FIG. 13C

1408	CCAGCCCTCCTGGGCCAACCCAGAGG . GCCTTCAGACCCCAGCTGTGTGC	1456
2498	CCAGCCCTCCTGGGCCAACCCAGAGGCCCCCTTCAGACCCCAGCTGTCTGC	2547
1457	GCGTCTGACTCTTGTGGCCTCAGCAGGACAGGCCCCGGGCACTGCCTCAC	1506
2548	GCGTCTGACTCTTGTGGCCTCAGCAGGACAGGCCCCGGGCACTGCCTCAC	2597
1507	AGCCAAGGCTGGACTGGGTTGGCTGCAGTGTGGTGTAGTGGATACAC	1556
2598	AGCCAAGGCTGGAATGGGTTGGCTGCAGTGTGGTGTAGTGGATACAC	2647
1557	ATCGGAAGTGATTTCT . AAATTGGATTTGAATTGGCTCCTGTTTCT	1604
2648	ATCGGAAGTGATTTCTAAAAATTGGATTTGAATTGGAAAAAAA . . .	2692

FIG. 13D

1	.....	GCACGAGCTGCCTCCCGCAGGCGC	24
701	GTTGCTTCCCTGGGAGATGACCGTCTTCTCCAGCAGAAAGGTTGAAGGTC		750
25	CACCTGTGTCCCCAGCGCCGCTCCACCCAGCAGGCCTGAGCCCTCTCT		74
751	CCACCCCTGAGCGGCACCCCTGGTCACATGCCTGCGTCCAGGAGAGCTGCAG		800
75	GCTGCCAGACACCCCCCTGCTGCCCACTCTCCTGCTGCTCGGGTTCTGAGG		124
801	GGTGAAGCCTGTGTGCCCAAGATAACCCCTTCATGGGCCAGACAAAGC		850
125	CACAGCTTGTACACCGAGGCAGGATTCTCTTTCTCTTCTCTTCTTC		174
851	CTCATCAGATCTGAGCTTCTGGAGGCTCAGGATGGGCCCTCCCAGAACG		900
175	TGGCCCACA.....GCCGCAGCAATGGCGCTGAGTCCCTGCTGGAGTT		219
901	AGGCCAGAGGGAGGCTGCCCTCAGATCCCCTGTCCCCGGCTGTGGG		950
220	CATCCTGCTAGCTGGGTTCCCGAGCTGCCGGTCTGAGCCTGAGGCATGGA		269
951	TGTCCCTGAATGTCAGGGCCATGGAGGGCCCTGGGCTTCAGGGGTTGG		1000
270	GCCTCCTGGAGACTGGGGCCTCCTCC.....CTGGAGATCCACCCCCAA		314
1001	GGAAAGTGAACACTCTGCTTTGTCCACCTCGGGAGGACAACCTTCAA		1050
315	A.....ACCGACGTCTTGAGGCTGGTGTATCTCACCTCCTGGGA		357
1051	ATGCTGACCCCTGGGCCCTAACTGACCTGAGACTTCAGAGCTTCTGGGA		1100
358	GCCCCCTGCTACGCCAGCTCTGCCGTCTGCAAGGAGGACGAGTACCC		407
1101	GGAGCTGGGGTCCCCCAGCGGAGCCTGGGATGGAGCAGGGATGGCTGCC		1150
408	AGTGGGCTCCGAGTGCTGCCCAAGTGCAGTCCAGGTTATCGTGTGAAGG		457
1151	CAGGGAGGGGGCGGTGGGCCATCCTGCTCTGCCCTCCTCGTCCTC		1200

FIG. 14A

FIG. 14B

911	GCTCCACAGTTGGCTAATCATATGTGTGAAAAGAAGAAAGCCAAGGGT	960
1701	GCTCCACAGTTGGCTAATCATATGTGTGAAAAGAAGAAAGCCAAGGGT	1750
961	GATGTAGTCAAGGTGATCGTCTCCGTCCAG.....	990
1751	GATGTAGTCAAGGTGATCGTCTCCGTCCAGGTATTGATCCTCCTCCCCCT	1800
	.....CGGAAAAGACAGGAGGCA	1008
2001	GGCAGGGTCTCCACGATTGTGCTCACAGCGGGAAAAGACAGGAGGCA	2050
1009	GAAGGTGAGGCCACAGTCATTGAGGCCCTGCAGGCCCTCCGGACGTAC	1058
2051	GAAGGTGAGGCCACAGTCATTGAGGCCCTGCAGGCCCTCCGGACGTAC	2100
	.....	1107
1059	CACGGTGGCGTGGAGGAGACAATACCTCATTAC. GGGGAGGAGCCCA	1107
2101	CACGGTGGCGTGGAGGAGACAATACCTCATTACGGGGAGGGAGCCCA	2150
	.....	1157
1108	AACCACTGACCCACAGACTCTGCACCCGACGCCAGAGATACTGGAGCG	1157
2151	AACCACTGACCCACAGACTCTGCACCCGACGCCAGAGATACTGGAGCG	2200
	.....	1207
1158	ACGGCTGAATGAAAGAGGCTGTCACCTGGCGAACCAACCGGAGCCCGGA	1207
	..	
2201	ACGGCTG. CTGAAAGAGGCTGTCACCTGGCGAAACCAACCGGAGCCCGGA	2249
	.....	1257
1208	GGCTTGGGGCTCCACCTGGACTGGCTTCCGTCTCC1CCAGTGGAGGGA	1257
2250	GGTTTGGGGCTCCGCCCTGGCTGGTTCCGTCTCCAGTGGAGGGA	2299
	.....	1307
1258	GAGGTGGCGCCCTGCTGGGTAGAGCTGGGACGCCACGTGCCATTCCC	1307
	..	
2300	GAGGTGGGGCCCTGCTGGGTAGAGCTGGGACGCCACGTGCCATTCCC	2349
	.....	1357
1308	ATGGGCCAGTGAGGCCCTGGGCCCTGTGTTCTGCTGTGGCCTGAGCTCCC	1357
2350	ATGGGCCAGTGAGGCCCTGGGCCCTGTGTTCTGCTGTGGCCTGAGCTCCC	2399

FIG. 14C

1358	CAGAGTCCTGAGGAGGAGCGCCAGTTGCCCTCGCTCACAGACCACAC	1407
2400	CAGAGTCCTGAGGAGGAGCGCCAGTTGCCCTCGCTCACAGACCACAC	2449
1408	CCAGCCCTCCTGGG.CCAACCCAGAGGG.CCTTCAGACCCCAGCTGTGTG	1455
2450	CCAGCCCTCCTGGGTCCAGCCCAGAGGGCCCTTCAGACCCCAGCTGTCTG	2499
1456	CGCGTCTGACTCTTGTGGCCTCAGCAGGACAGGCCCGGGCACTGCCTCA	1505
2500	CGCGTCTGACTCTTGTGGCCTCAGCAGGACAGGCCCGGGCACTGCCTTC	2549
1506	CAGCCAAGGCTGGACTGGGTTGGCTGCAGTGTGGTGTAGTGGATACCA	1555
2550	AAGCCAAGGCTGGACTGGGTTGGCTGCAGTGTGGTGTAGTGGATACCA	2599
1556	CATCGGAAGTGATTTCTAAATTGGATTTGAATTGGCTCCTGTTTCTA	1605
2600	CATCGGAAGTGATTTCTAAATTGGATTTGAAAAAAA.....	2637

FIG. 14D

FIG. 15A

FIG. 15B

FIG. 15C

FIG. 15D

FIG. 15F

2481	GCTCACAGACCACACACACCCAGCCCTCCTGGG.CCAACCCAGAGGGCCCTT	2529
2433	GCTCACAGACCACACACACCCAGCCCTCCTGGGTCCAGCCCAGAGGGCCCTT	2482
2530	CAGACCCCAGCTGTCTGCGCGTCTGACTCTTGTGGCCTCAGCAGGACAGG	2579
2483	CAGACCCCAGCTGTCTGCGCGTCTGACTCTTGTGGCCTCAGCAGGACAGG	2532
2580	CCCCGGGCACTGCCTCACAGCCAAGGCTGGAATGGGTTGGCTGCAGTGTG	2629
2533	CCCCGGGCACTGCCTTCAAGCCAAGGCTGGACTGGGTTGGCTGCAGTGTG	2582
2630	GTGTTTAGTGGATACCACATCGGAAGTGATTTCTAAAAATTGGATTTGA	2679
2583	GTGTTTAGTGGATACCACATCGGAAGTGATTTCTAAA.....TTGG	2624
2680	ATTCGGAAAAAAA 2692	
2625	ATTTGAAAAAAA 2637	

FIG. 15F

TNFR-I	V C P Q G K Y I H P Q N N S I	C C H K G T Y L Y N D	C C P C P G Q Q D T D	C C R
TNFR-II	T C R L R E Y Y D Q T A Q M	C C S P G Q H A K V F	C C T K T S D T V	C C D
CD40	A C R E K Q Y L I N S Q	C C Q P G Q K L V S D	C C T E P T E	C C L
4-1BB	-	C C P A G T F	C C D N N R N Q I	C C S
TR-2	S C K E D E Y P V G S E	C C S P G Y R V K E A	C C G E L T G T V	C C E
TNFR-I	E C E S G S F T A S E N H L R H	C C R K E M G Q V E I S S	C C T V D R D T V	C C G
TNFR-II	S C E D S T Y T Q L I W N W P E	C C S S D Q V E T Q A	C C T R E Q N R I	C C T
CD40	P C G E S E F L D T W N R E T H	C C D P N L G L R V Q Q K	C C G T S E T D T I	C C T
4-1BB	P C P P N S F S S A G G Q R T	C C K G V F R T R K E	C C S S T S N A E	C C D
TR-2	P C P P G Y T A H L N G L S K	C C D P A M G L R A S R N	C C S R T E N A V	C C G
TNFR-I	C C R K N Q Y R H Y M W E N L F Q	C C F N C S L	C C L N G T V H L S	C C Q E K Q N T V
TNFR-II	C C R P G W Y	C C C A L S K Q E G	C C C R P G F G V A R P	C C T
CD40	C C E E G W H	C C C T S E A	C C C S P C F G V K Q I A T	C C K
4-1BB	C C T P G F H	C C C L G A G	C C C K Q Q Q E L T K K G	C C E
TR-2	C C S P G H F	C C C I V Q D G D H	C C C R A Y A T S	C C V S Q D T L
TNFR-I	- C H A G F F L R E N E	C C S P C S N	C C K K S L E	C C T K L
TNFR-II	P C A P G T F S N T T S S T D I	C C R P H Q I	C C N W A I P	C C T
CD40	P C P V G F F S N V S S A F E K	C C H P W T S	C C E T K D L V V Q Q A	C C G
4-1BB	- C F - G T F N K Q K R G I	C C C R P W T N	C C S L D G K S V L V N	C C G
TR-2	N C P P G T F S P N G T L E E	C C C Q H Q T K	C C C S W L V T K A	C C W V

FIG. 16